

MEBT MEETING AGENDA

August 30, 2001

Mechanical Systems Update

- 1. Raft 3 Assembly Status
 - PM4 & Anti-Chopper Beambox installed (photos)
 - Quad locational measurements (<u>CMM results</u>)
 - Quad repeatability measurements (R&R CMM results)

2. Fabrication and Procurement Update

- Raft weldments
- Profile Monitor Beamboxes
 - Welding of PM4 & PM5 complete
 - Welding or remaining beamboxes underway
- Beampipe welding underway
- Other fabrications underway:
 - flanges for remaining beampipes, BZ Engineering
 - Rebuncher Fiducialization Stand, Main Shop

3. Design Status (MEBT)

- Beampipe welding drawings underway
- Beambox welding drawings underway
- Rebuncher Cavity mounting hardware redesign complete

Electrical Systems Update

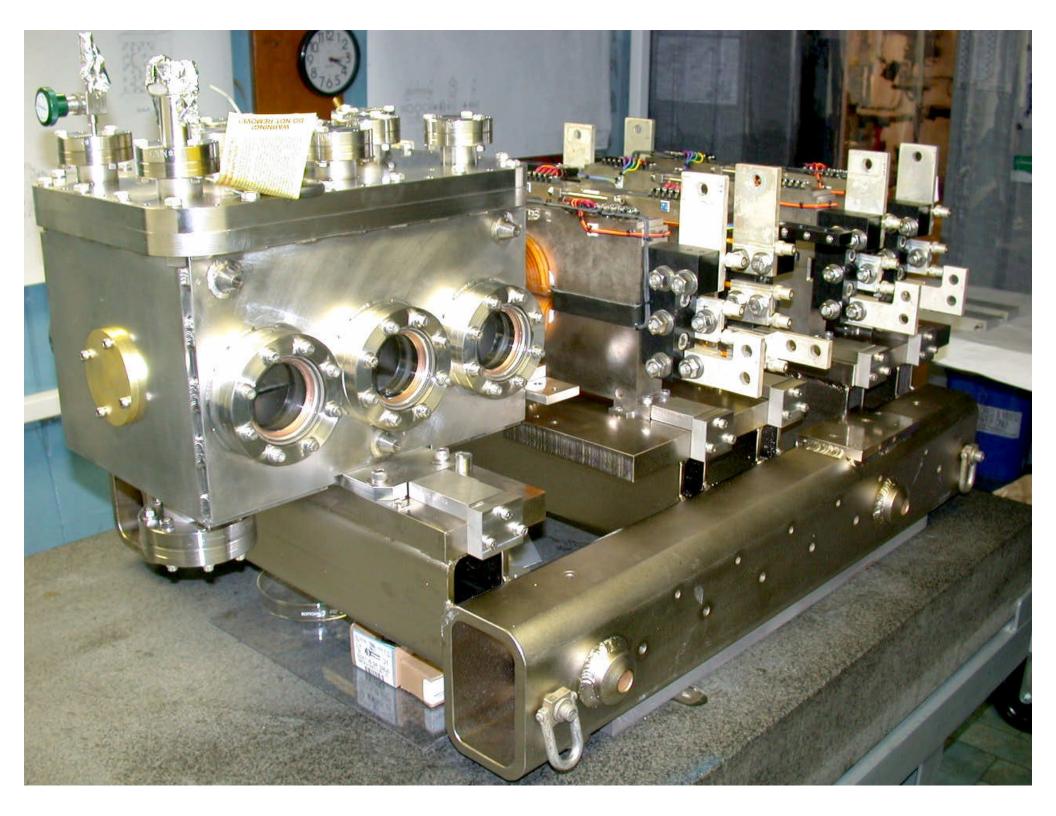
- 1. Low Level RF
- 2. Rebuncher System
- 3. Beam Diagnostics (Laser PM Hardware)

System Integration / Installation

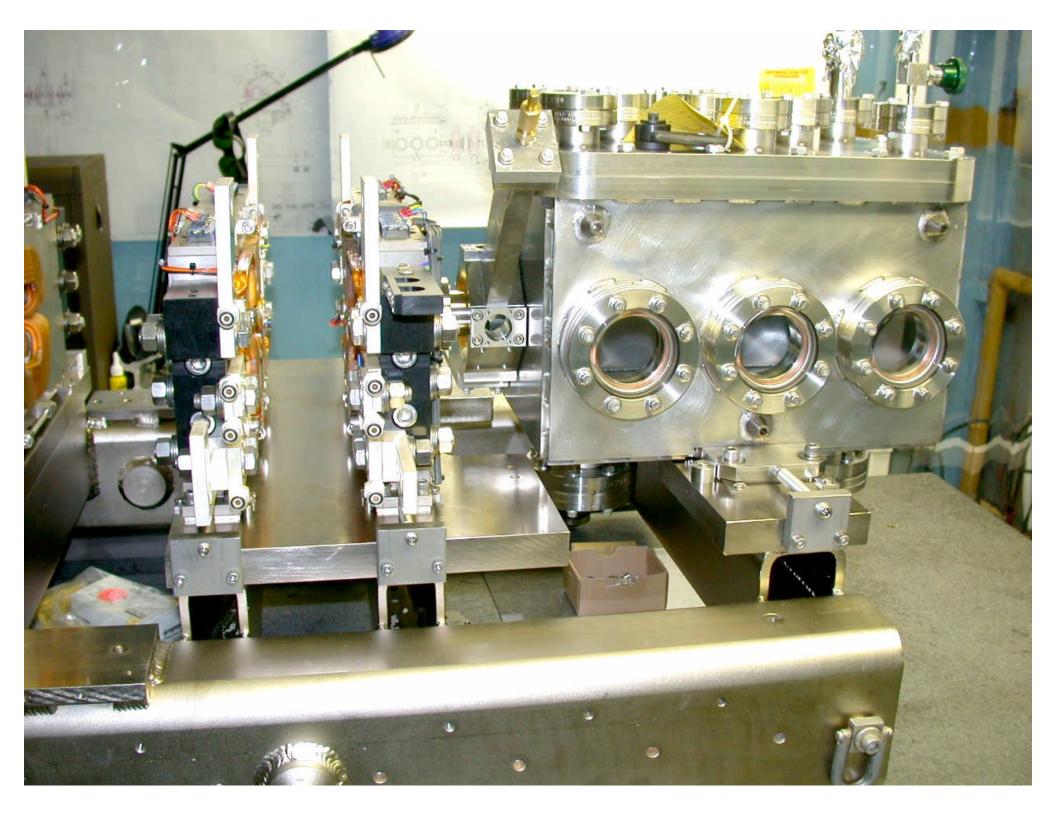
Upcoming Tasks and Milestones

•	Raft and Support Structure Complete	5/31/01 OR
•	Rebuncher Cavity #2-4 Received	6/30/01
•	Profile Monitor all complete	7/31/01
•	MEBT Raft 3 assembly complete	9/30/01

Next Meeting: Thursday, 9/13/01, 10 AM

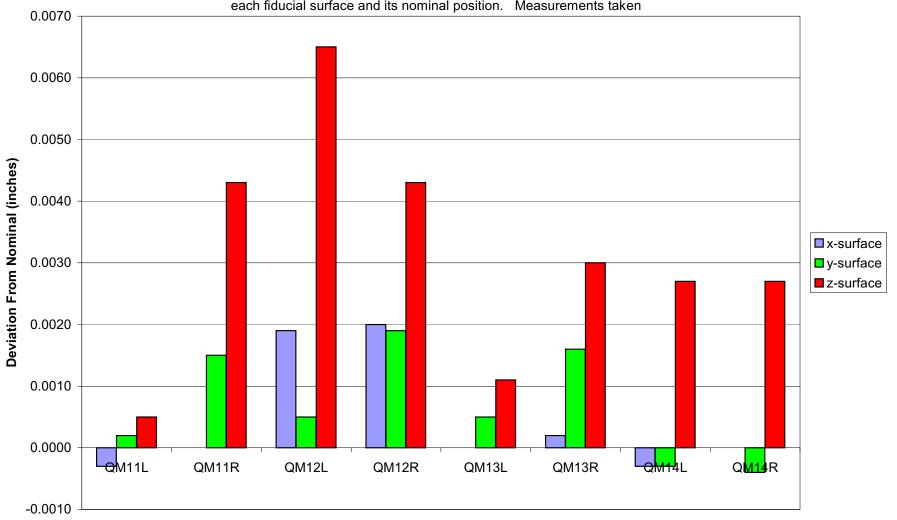






Raft3 Quad Locational Deviations

Deviation values: the difference between the measured position of each fiducial surface and its nominal position. Measurements taken



Quad Number (Left/Right)

Raft #3/QM 14 CMM Data Summary

Mounting Test: QM14 onto Raft

Inspection Description Part Name	Pitch Torque Test Raft 3			
Torque Value	Loose	60 in-lb	80 in-lb	100 in-lb
PLANE QM14_ XL	18.5244	18.5245	18.5245	18.5245
PLANE QM14_ YL	8.0442	8.0438	8.0438	8.0438
PLANE QM14_YR	8.0427	8.0425	8.0425	8.0425
PLANE QM14_XR	3.2709	3.2710	3.2710	3.2710
POINT QM14_ Z1R	2.6150	2.6163	2.6162	2.6162
POINT QM14_ Z2R	2.6144	2.6147	2.6147	2.6147
POINT QM14_ Z1L	2.6103	2.6122	2.6122	2.6123
POINT QM14_ Z2L	2.6128	2.6134	6.1340	2.6134

Inspection Description Part Name	On/Off Test Raft 3		
Mount Conditions Torque Value	Before Move 100 in-lb	After Move 100 in-lb	Difference
PLANE QM14 XL	18.5246	18.5247	-0.0001
PLANE QM14_ YL	8.0439	8.0438	0.0001
PLANE QM14_YR	8.0426	8.0425	0.0001
PLANE QM14_XR	3.2711	3.2711	0.0000
POINT QM14_ Z1R POINT QM14_ Z2R	2.6164 2.6148	2.6162 2.6149	0.0002 -0.0001
POINT QM14_ Z1L POINT QM14_ Z2L	2.6123 2.6135	2.6122 2.6133	0.0001 0.0002

Inspection Description Part Name	Split Test Raft 3		
Mount Conditions	Before Move/Split	After Move/Split	Difference
Torque Value	100 in-lb	100 in-lb	
PLANE QM14_XL PLANE QM14_YL PLANE QM14_YR PLANE QM14_XR	18.5248	18.5248	0.0000
	8.0439	8.0439	0.0000
	8.0426	8.0426	0.0000
	3.2712	3.2710	0.0002
POINT QM14_Z1R POINT QM14_Z2R POINT QM14_Z1L POINT QM14_Z2L	2.6164	2.6166	-0.0002
	2.6148	2.6149	-0.0001
	2.6123	2.6127	-0.0004
	2.6135	2.6137	-0.0002

MEBT Raft #3 Schedule June/July/August

Monday	Tuesday	Wednesday	Thursday	Friday
June 25	June 26	June 27	June 28	June 29
All parts for rafts 1, 2 and 3 are cut and preliminary machine	Start Raft #3 assembly and tack weld the parts together	Raft #3 is tack welded together.	Pre-weld inspection. Completely weld Raft #3.	Raft #3 sent off site for stress relieving.
work finished on raft #3.				
July 2 Raft #3-sent off site for stress	July 3 Raft #3 sent off site for stress	July 4	July 5 Light Sandblast of Raft #3 to remove stress	July 6 Machine edges of Raft #3
relieving. Charlie Bremmer out, therefore may be no inspection of raft	relieving. Charlie Bremmer out,	Holiday	relief oven scale. Charlie Bremmer inspection of raft 2 and 1 parts before tack	mounting plates.
2 and 1 parts before tack welding.	2 and 1 parts before tack welding.		welding. Waiting for quote from grinder!	
July 9	July 10	July 11	July 12	July 13
Raft #3 sent off site for	Raft #3 sent off site for	Raft #3 sent off site for	Raft #3 sent off site for	Raft #3 sent off site for grinding.
grinding? NO!	grinding? NO! Start welding	grinding. NO!	grinding. NO! Start welding raft #1? Yes	NO!
	raft #2.YES!		rait #1? Yes	
July 16	July 17	July 18	July 19	July 20
Raft #3 sent off site for grinding. NO!	Raft #3 sent off site for grinding. NO!	Raft #3 sent off site (overnight shipping) for grinding.	Raft #3 sent off site for grinding.	Raft #3 sent off site for grinding.
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July 23	July 24	July 25	July 26	July 27
Raft #3 sent off site for	Raft #3 arrives back from	Inspection of the grinding of	Begin machining of the top	Continue machining of the top
grinding.	grinding.	Raft #3. Glean first?	plates of raft #3	plates of raft #3.
July 30	July 31	August 1	August 2	August 3
Machine work done. Inspection of the drilled and tapped holes	Inspection of the drilled and tapped holes of Raft #3.	Re-Machine dowel pin holes.	Inspection of the dowel pin holes of Raft #3.	Sand Blast and clean out tapped holes.
of Raft #3.	"			
August 6	August 7	August 8	August 9	August 10
Send Raft #3 to platers for	Raft #3 at platers.	Raft #3 at platers.	Raft #3 returns from platers.	Deliver to SNS building 71
electroless nickel plating.			Final inspection.	
August 13	August 14	August 15	August 16	August 17

SNS - FES MEBT Raft Fabrication Schedule

